

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080122\
 Data File : BF129491.D
 Acq On : 02 Aug 2022 00:40
 Operator : CG\JU
 Sample : N3976-05
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP3-0729

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 08/02/2022
 Supervised By : Jagrut Upadhyay 08/02/2022

Quant Time: Aug 02 01:19:13 2022
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF072522.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Aug 02 01:11:25 2022
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.875	152	150733	20.000	ng	0.00
21) Naphthalene-d8	8.157	136	533103	20.000	ng	0.00
39) Acenaphthene-d10	9.910	164	222624	20.000	ng	0.00
64) Phenanthrene-d10	11.404	188	318584	20.000	ng	0.00
76) Chrysene-d12	14.057	240	311480	20.000	ng	0.00
86) Perylene-d12	15.545	264	276060	20.000	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.510	112	652729	70.542	ng	0.00
7) Phenol-d6	6.522	99	812033	69.819	ng	0.00
23) Nitrobenzene-d5	7.440	82	533402	54.619	ng	0.00
42) 2,4,6-Tribromophenol	10.704	330	125627	58.694	ng	0.00
45) 2-Fluorobiphenyl	9.228	172	797914	55.445	ng	0.00
79) Terphenyl-d14	12.986	244	668017	40.461	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.175	128	207889	7.675	ng	100
37) 2-Methylnaphthalene	8.869	142	81443	4.627	ng	98
38) 1-Methylnaphthalene	8.969	142	68058	4.005	ng	97
49) Acenaphthylene	9.775	152	76444	3.830	ng	97
52) Acenaphthene	9.945	154	44454	3.410	ng	97
55) Dibenzofuran	10.116	168	62227	3.463	ng	# 90
58) Fluorene	10.463	166	47392	3.296	ng	# 92
71) Phenanthrene	11.428	178	768820	44.209	ng	99
72) Anthracene	11.480	178	219347	12.835	ng	99
73) Carbazole	11.639	167	102207	6.353	ng	99
75) Fluoranthene	12.622	202	1502928	85.293	ng	98
78) Pyrene	12.857	202	1452659	55.771	ng	99
81) Benzo(a)anthracene	14.045	228	1139651	53.562	ng	95
83) Chrysene	14.080	228	998383	49.788	ng	96
87) Indeno(1,2,3-cd)pyrene	17.051	276	610631	32.847	ng	95
88) Benzo(b)fluoranthene	15.110	252	1511530m	82.544	ng	
89) Benzo(k)fluoranthene	15.133	252	501985m	27.973	ng	
90) Benzo(a)pyrene	15.486	252	1043148	70.174	ng	97
91) Dibenzo(a,h)anthracene	17.057	278	168189m	11.116	ng	
92) Benzo(g,h,i)perylene	17.515	276	572144	37.005	ng	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

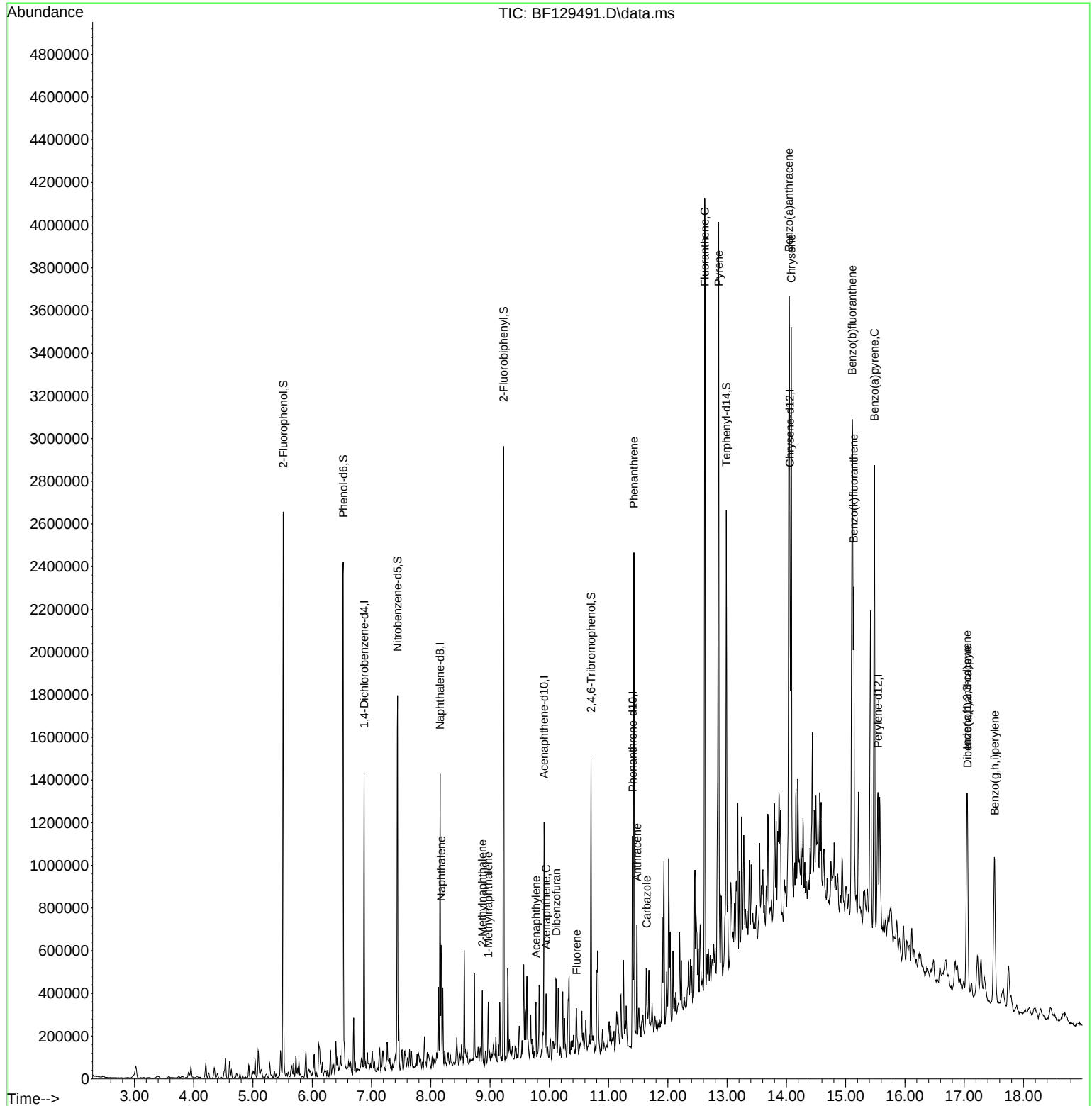
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080122\
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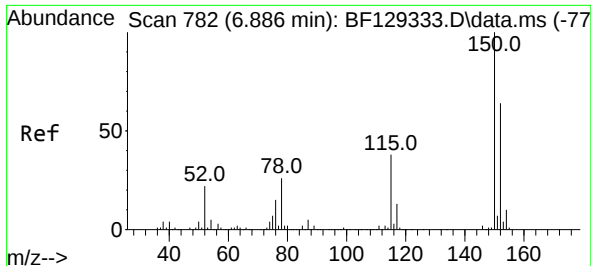
Instrument :
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ClientSampleId :
TP3-0729

Quant Time: Aug 02 01:19:13 2022
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF072522.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Aug 02 01:11:25 2022
Response via : Initial Calibration

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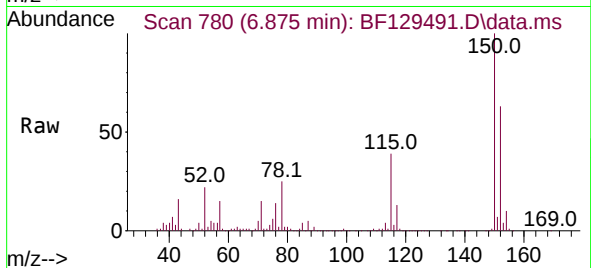
Reviewed By : Christian Giraldo 08/02/2022
Supervised By : Jagrut Upadhyay 08/02/2022





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.875 min Scan# 782
Delta R.T. -0.000 min
Lab File: BF129491.D
Acq: 02 Aug 2022 00:40

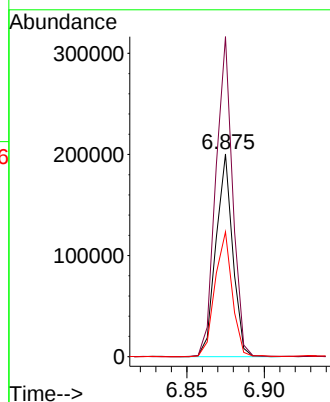
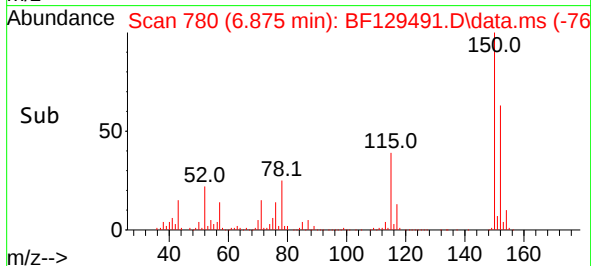
Instrument :
BNA_F
ClientSampleId :
TP3-0729



Tgt Ion:152 Resp: 150733
Ion Ratio Lower Upper
152 100
150 157.9 123.7 185.5
115 61.5 49.9 74.9

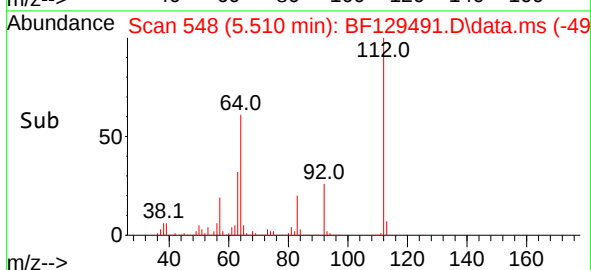
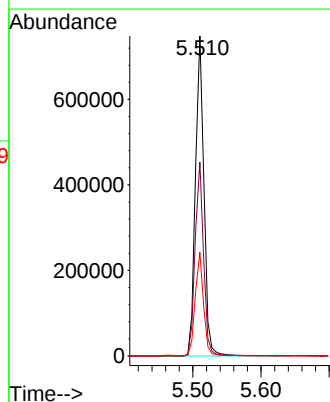
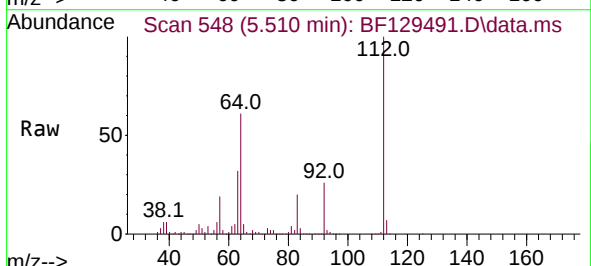
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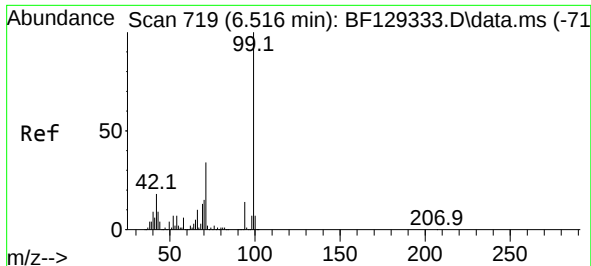
Reviewed By :Christian Giraldo 08/02/2022
Supervised By :Jagrut Upadhyay 08/02/2022



#5
2-Fluorophenol
Concen: 70.542 ng
RT: 5.510 min Scan# 548
Delta R.T. 0.006 min
Lab File: BF129491.D
Acq: 02 Aug 2022 00:40

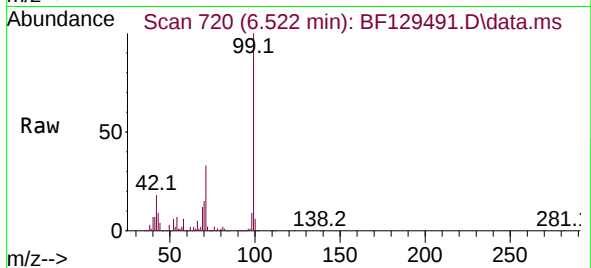
Tgt Ion:112 Resp: 652729
Ion Ratio Lower Upper
112 100
64 60.5 53.3 79.9
63 32.4 28.0 42.0





#7
Phenol-d6
Concen: 69.819 ng
RT: 6.522 min Scan# 719
Delta R.T. 0.000 min
Lab File: BF129491.D
Acq: 02 Aug 2022 00:40

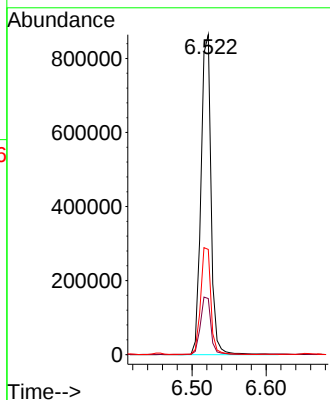
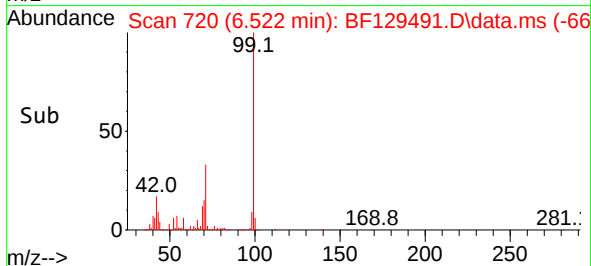
Instrument :
BNA_F
ClientSampleId :
TP3-0729



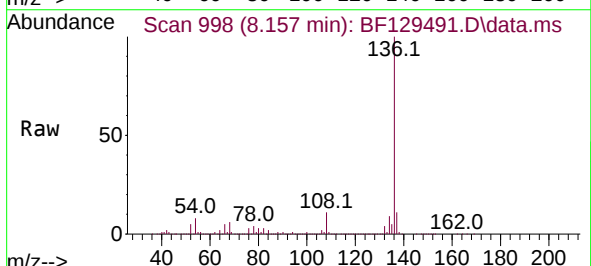
Tgt Ion: 99 Resp: 812033
Ion Ratio Lower Upper
99 100
42 17.5 17.3 25.9
71 32.9 28.9 43.3

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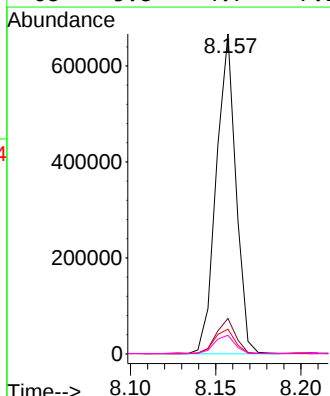
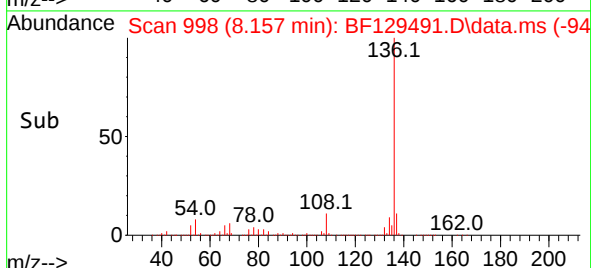
Reviewed By :Christian Giraldo 08/02/2022
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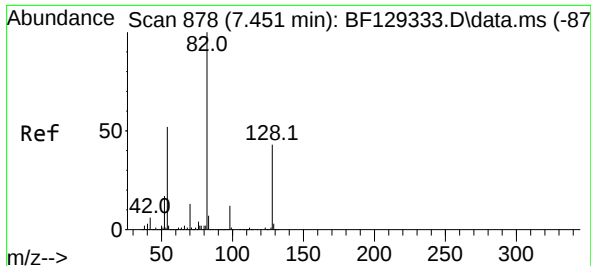


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.157 min Scan# 998
Delta R.T. -0.006 min
Lab File: BF129491.D
Acq: 02 Aug 2022 00:40



Tgt Ion:136 Resp: 533103
Ion Ratio Lower Upper
136 100
137 11.1 8.8 13.2
54 7.7 7.5 11.3
68 5.8 4.7 7.1





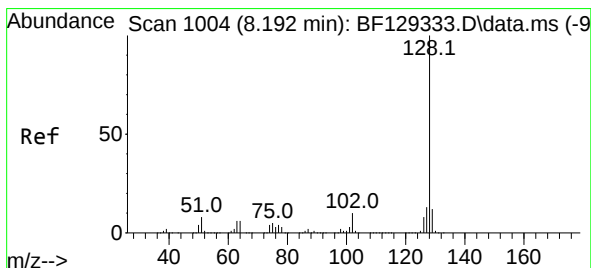
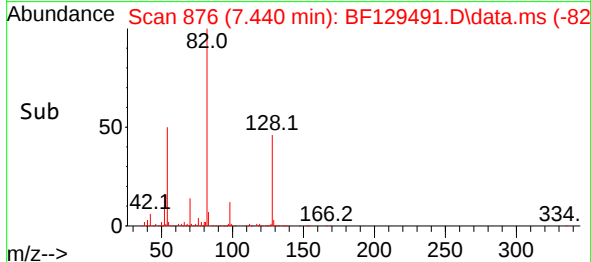
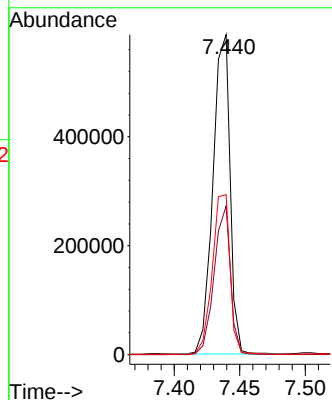
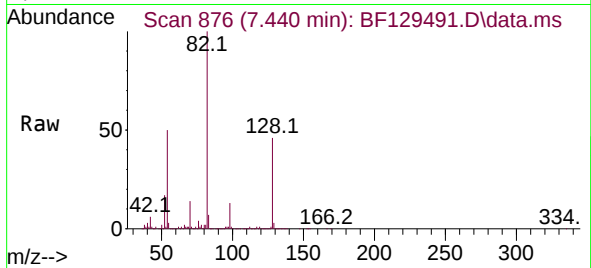
#23
Nitrobenzene-d5
Concen: 54.619 ng
RT: 7.440 min Scan# 81
Delta R.T. -0.006 min
Lab File: BF129491.D
Acq: 02 Aug 2022 00:40

Instrument :
BNA_F
ClientSampleId :
TP3-0729

Tgt Ion: 82 Resp: 533402
Ion Ratio Lower Upper
82 100
128 46.4 34.0 51.0
54 50.0 46.9 70.3

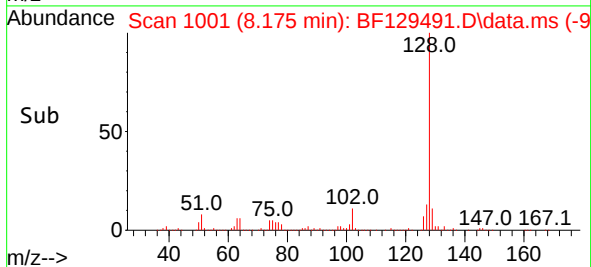
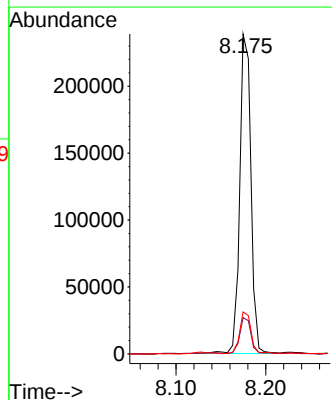
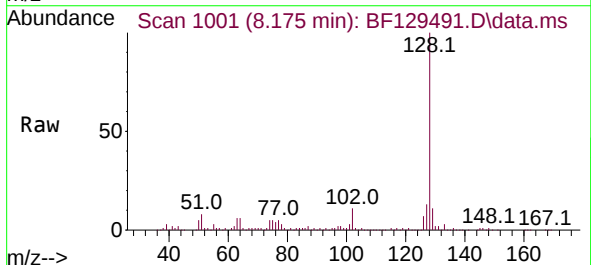
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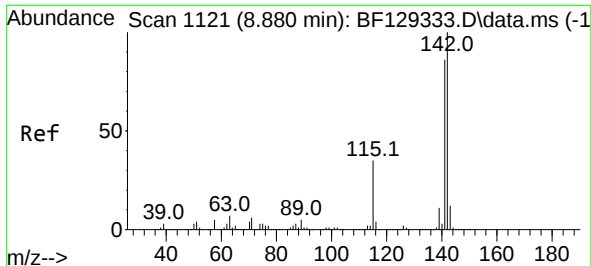
Reviewed By :Christian Giraldo 08/02/2022
Supervised By :Jagrut Upadhyay 08/02/2022



#31
Naphthalene
Concen: 7.675 ng
RT: 8.175 min Scan# 1001
Delta R.T. -0.006 min
Lab File: BF129491.D
Acq: 02 Aug 2022 00:40

Tgt Ion:128 Resp: 207889
Ion Ratio Lower Upper
128 100
129 11.3 9.2 13.8
127 13.1 10.5 15.7





#37

2-Methylnaphthalene

Concen: 4.627 ng

RT: 8.869 min Scan# 1119

Delta R.T. 0.000 min

Lab File: BF129491.D

Acq: 02 Aug 2022 00:40

Instrument :

BNA_F

ClientSampleId :

TP3-0729

Tgt Ion:142 Resp: 81443

Ion Ratio Lower Upper

142 100

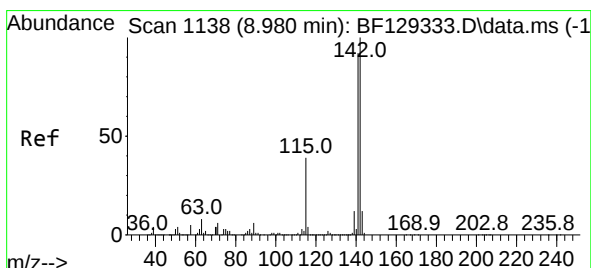
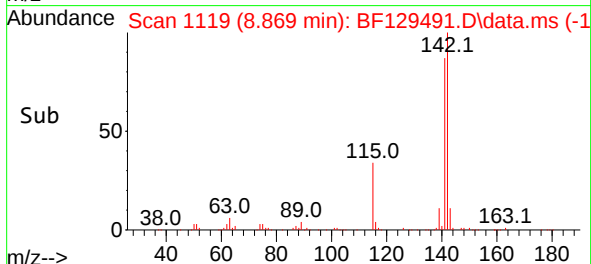
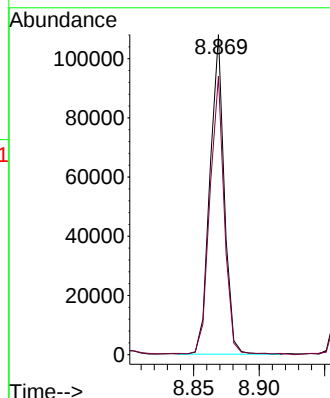
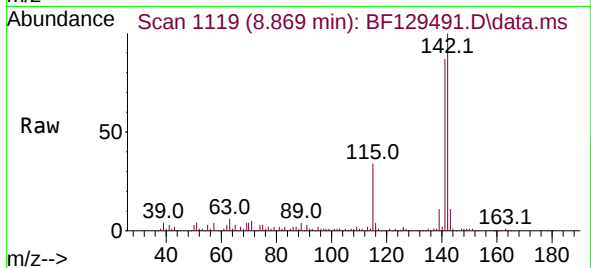
141 87.0 71.0 106.4

Manual Integrations

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#38

1-Methylnaphthalene

Concen: 4.005 ng

RT: 8.969 min Scan# 1136

Delta R.T. 0.000 min

Lab File: BF129491.D

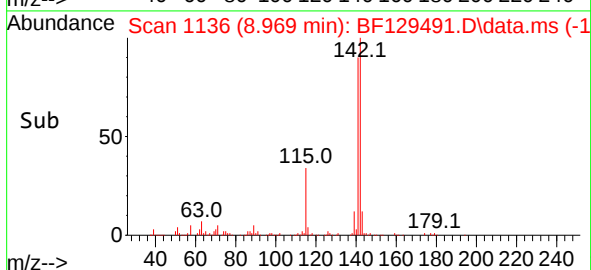
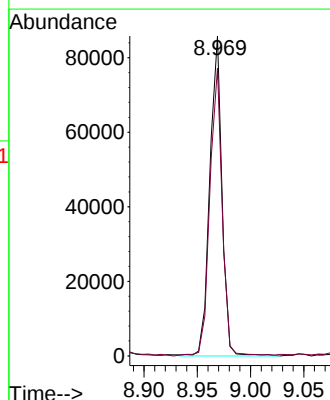
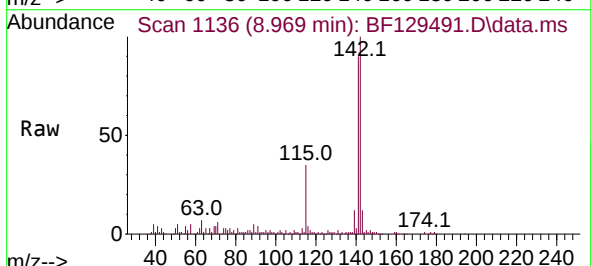
Acq: 02 Aug 2022 00:40

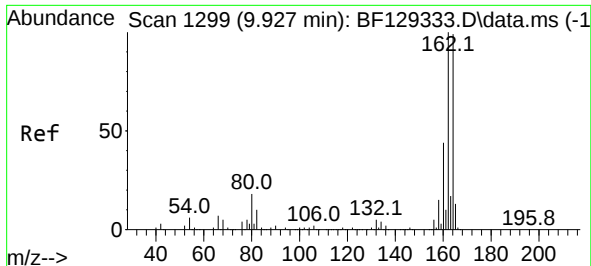
Tgt Ion:142 Resp: 68058

Ion Ratio Lower Upper

142 100

141 90.0 74.2 111.4





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.910 min Scan# 1299

Delta R.T. -0.006 min

Lab File: BF129491.D

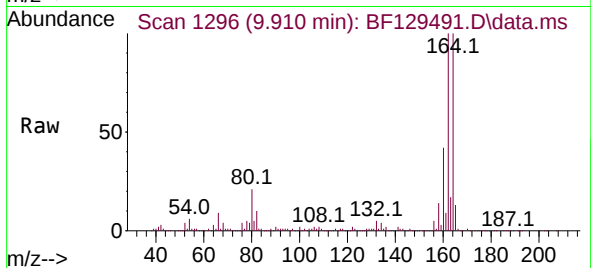
Acq: 02 Aug 2022 00:40

Instrument :

BNA_F

ClientSampleId :

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Tgt Ion:164 Resp: 222624

Ion Ratio Lower Upper

164 100

162 100.4 79.5 119.3

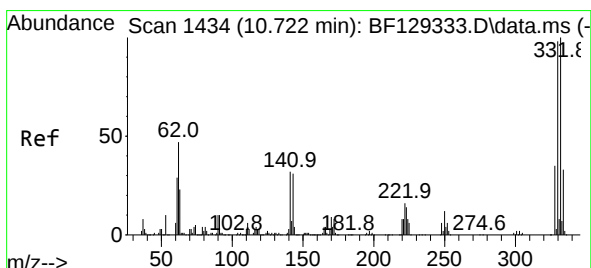
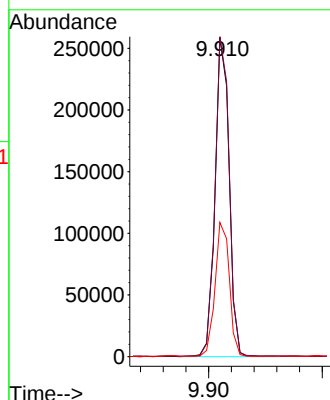
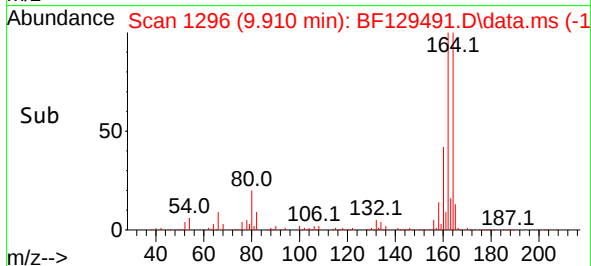
160 42.1 34.2 51.4

Manual Integrations

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#42

2,4,6-Tribromophenol

Concen: 58.694 ng

RT: 10.704 min Scan# 1431

Delta R.T. -0.006 min

Lab File: BF129491.D

Acq: 02 Aug 2022 00:40

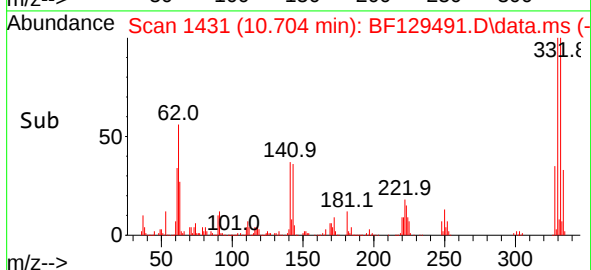
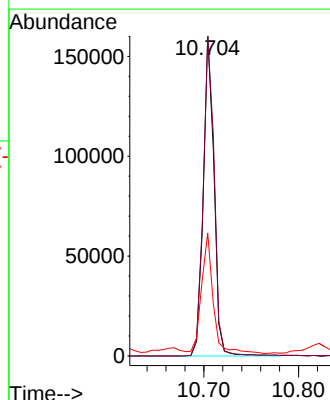
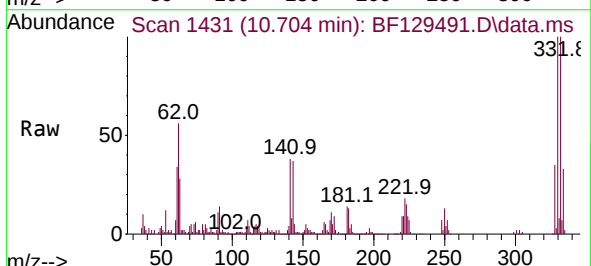
Tgt Ion:330 Resp: 125627

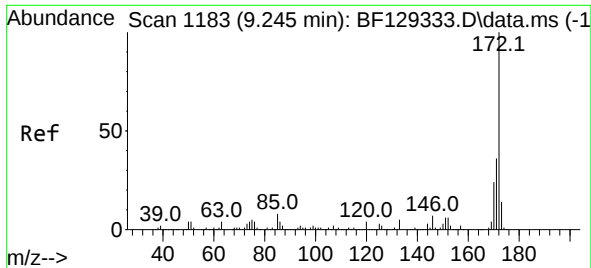
Ion Ratio Lower Upper

330 100

332 104.0 76.8 115.2

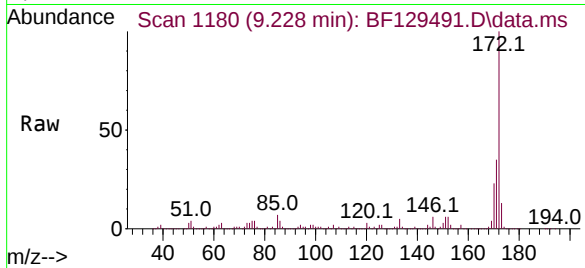
141 40.9 28.0 42.0





#45
2-Fluorobiphenyl
Concen: 55.445 ng
RT: 9.228 min Scan# 1183
Delta R.T. -0.006 min
Lab File: BF129491.D
Acq: 02 Aug 2022 00:40

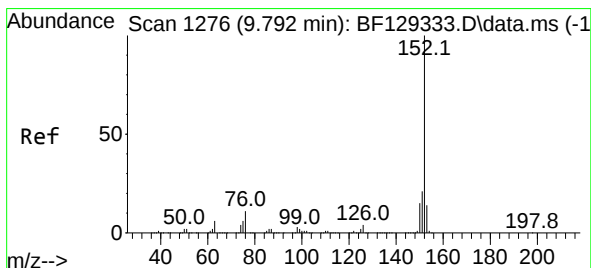
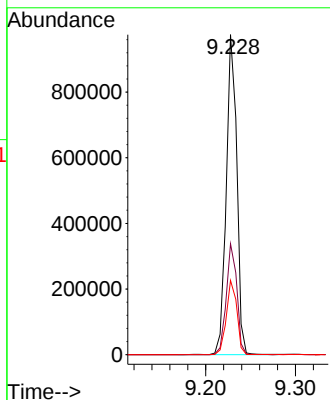
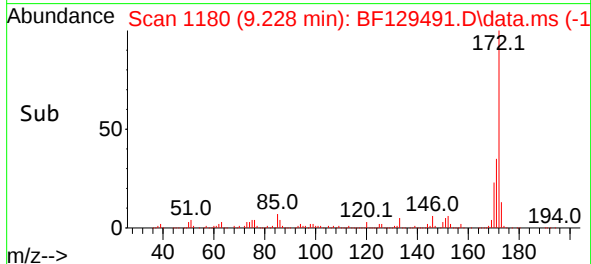
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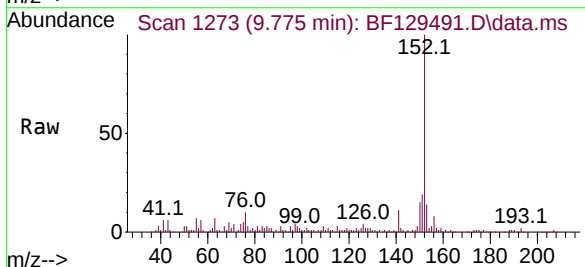
Tgt Ion:172 Resp: 797914
Ion Ratio Lower Upper
172 100
171 34.6 28.8 43.2
170 23.2 19.8 29.8

Manual Integrations
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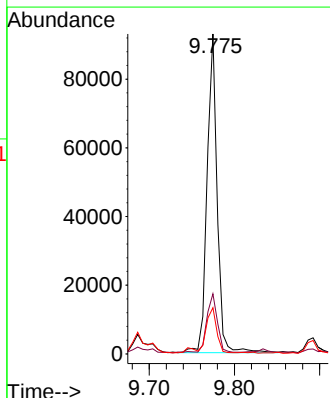
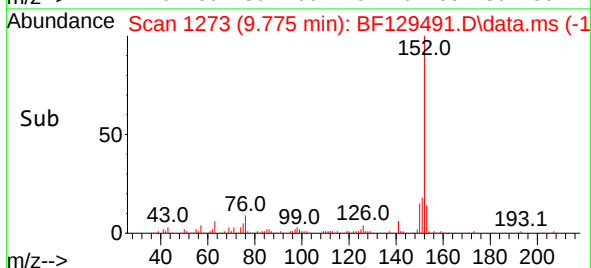
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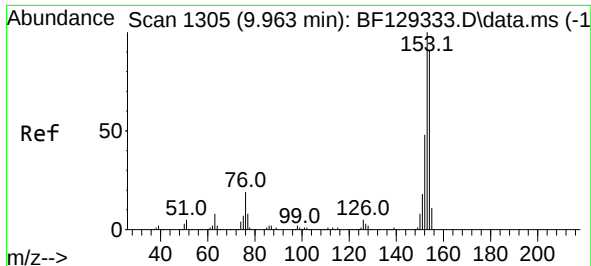


#49
Acenaphthylene
Concen: 3.830 ng
RT: 9.775 min Scan# 1273
Delta R.T. -0.006 min
Lab File: BF129491.D
Acq: 02 Aug 2022 00:40



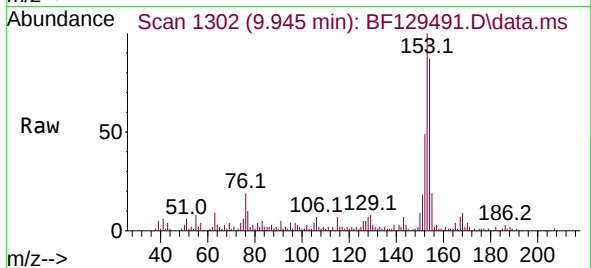
Tgt Ion:152 Resp: 76444
Ion Ratio Lower Upper
152 100
151 18.8 16.2 24.4
153 14.4 10.7 16.1





#52
Acenaphthene
Concen: 3.410 ng
RT: 9.945 min Scan# 1302
Delta R.T. -0.006 min
Lab File: BF129491.D
Acq: 02 Aug 2022 00:40

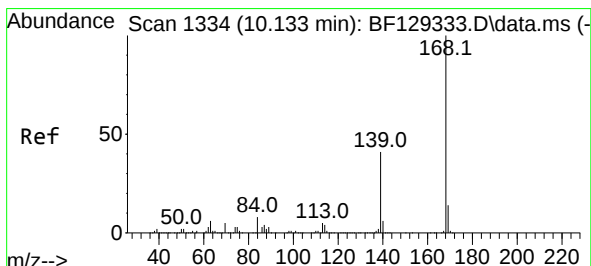
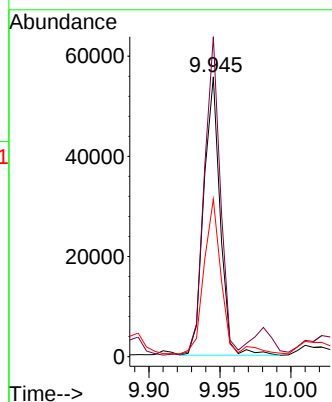
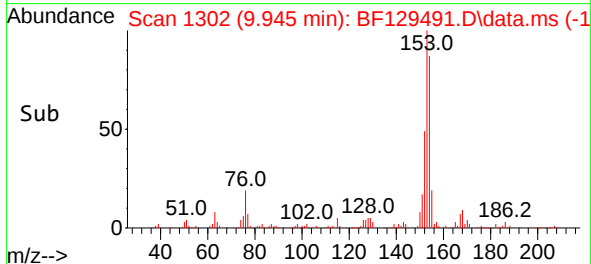
Instrument :
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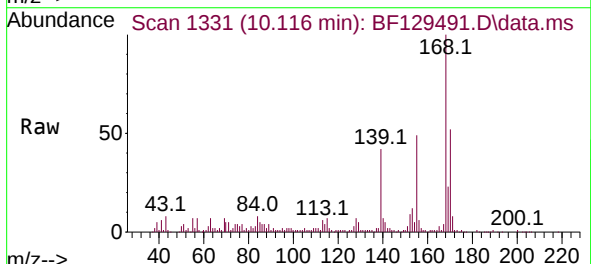
Tgt Ion:154 Resp: 44454
Ion Ratio Lower Upper
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153 114.4 89.6 134.4
152 56.3 42.4 63.6

Manual Integrations
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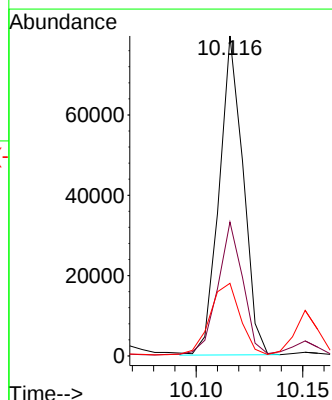
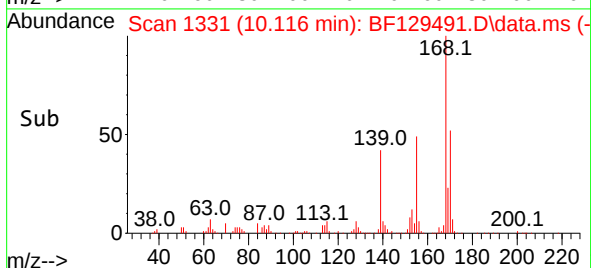
Reviewed By :Christian Giraldo 08/02/2022
Supervised By :Jagrut Upadhyay 08/02/2022

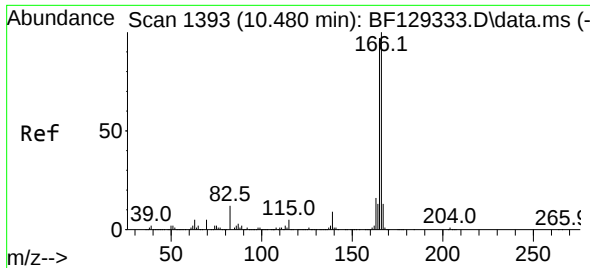


#55
Dibenzofuran
Concen: 3.463 ng
RT: 10.116 min Scan# 1331
Delta R.T. -0.006 min
Lab File: BF129491.D
Acq: 02 Aug 2022 00:40



Tgt Ion:168 Resp: 62227
Ion Ratio Lower Upper
168 100
139 41.9 30.6 46.0
169 22.7 11.0 16.6#





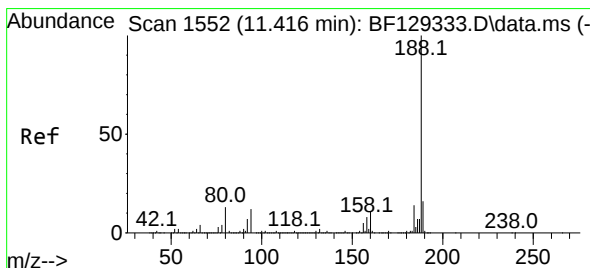
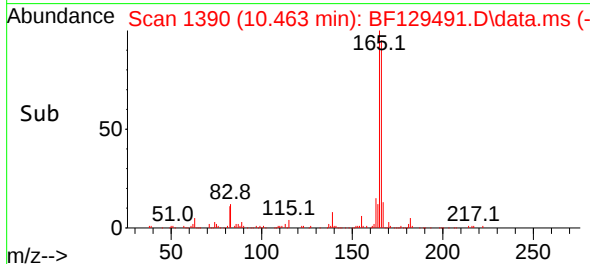
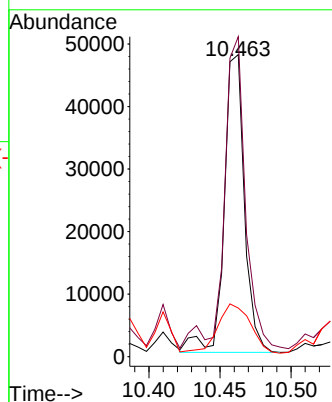
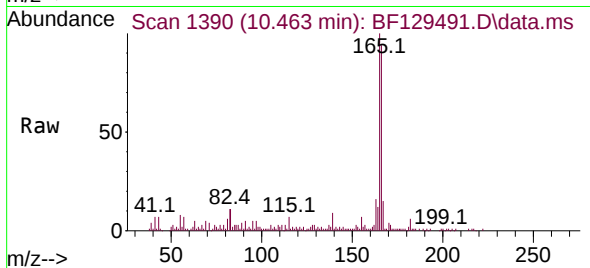
#58
Fluorene
Concen: 3.296 ng
RT: 10.463 min Scan# 1393
Delta R.T. -0.006 min
Lab File: BF129491.D
Acq: 02 Aug 2022 00:40

Instrument :
BNA_F
ClientSampleId :
TP3-0729

Tgt Ion:166 Resp: 47392
Ion Ratio Lower Upper
166 100
165 105.9 78.1 117.1
167 16.1 10.5 15.7

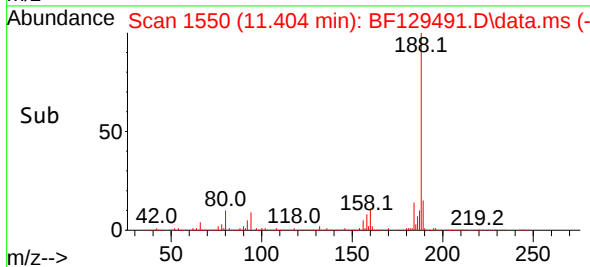
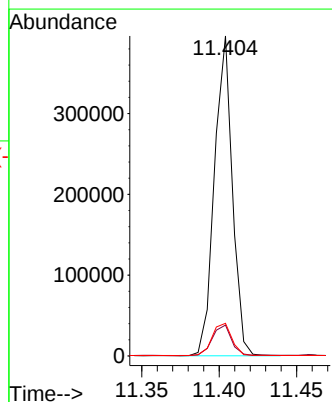
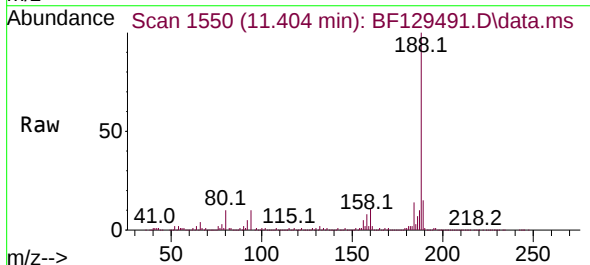
Manual Integrations
APPROVED

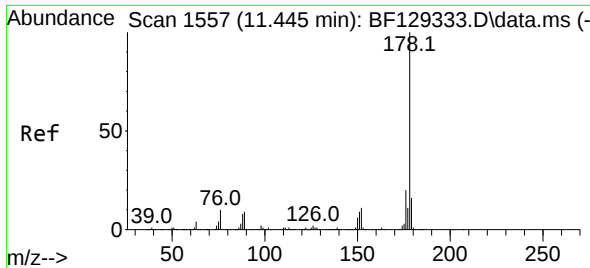
Reviewed By :Christian Giraldo 08/02/2022
Supervised By :Jagrut Upadhyay 08/02/2022



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.404 min Scan# 1550
Delta R.T. 0.000 min
Lab File: BF129491.D
Acq: 02 Aug 2022 00:40

Tgt Ion:188 Resp: 318584
Ion Ratio Lower Upper
188 100
94 9.6 7.0 10.6
80 10.2 7.6 11.4





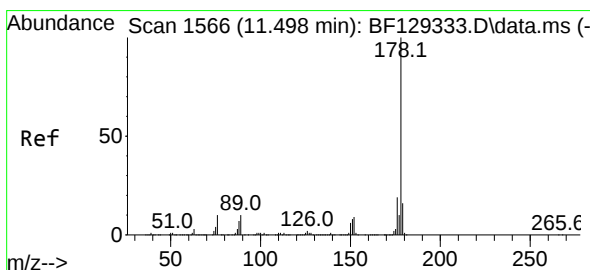
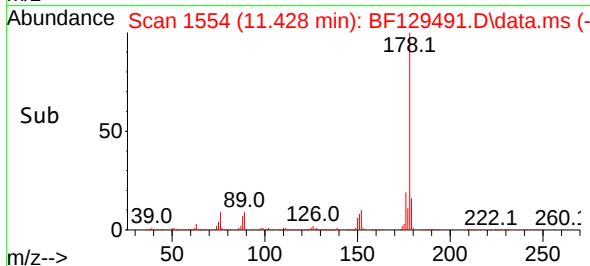
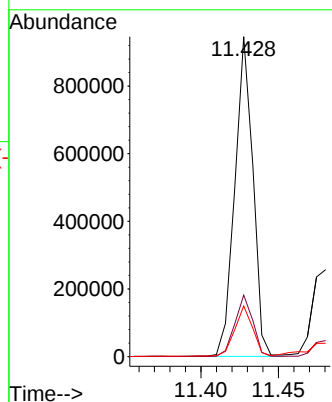
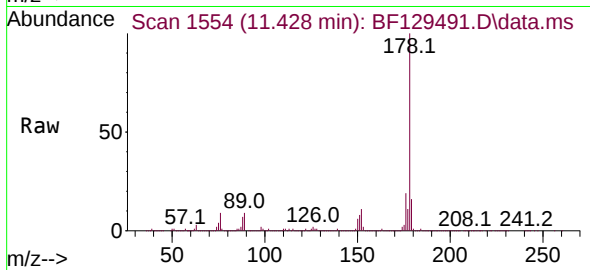
#71
Phenanthrene
Concen: 44.209 ng
RT: 11.428 min Scan# 1554
Delta R.T. -0.006 min
Lab File: BF129491.D
Acq: 02 Aug 2022 00:40

Instrument :
BNA_F
ClientSampleId :
TP3-0729

Tgt Ion:178 Resp: 768820
Ion Ratio Lower Upper
178 100
176 19.2 16.0 24.0
179 15.8 12.6 19.0

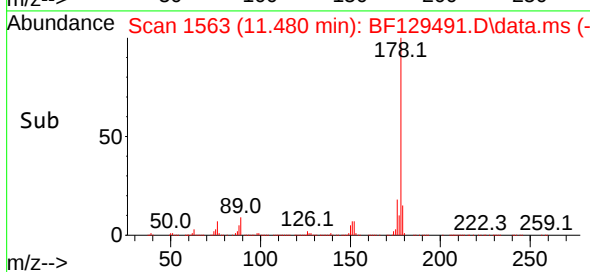
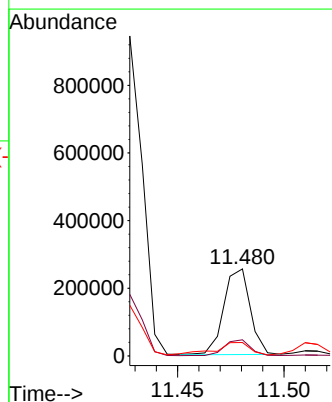
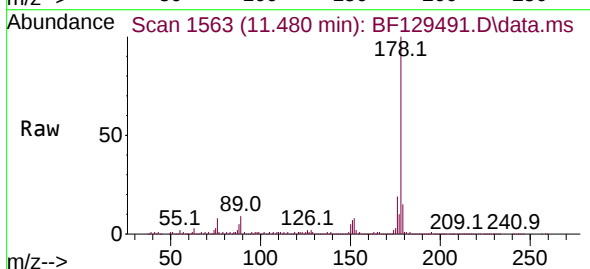
Manual Integrations
APPROVED

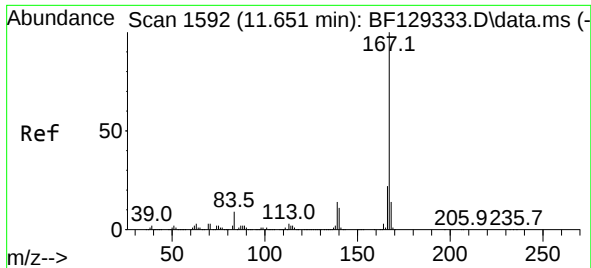
Reviewed By :Christian Giraldo 08/02/2022
Supervised By :Jagrut Upadhyay 08/02/2022



#72
Anthracene
Concen: 12.835 ng
RT: 11.480 min Scan# 1563
Delta R.T. 0.000 min
Lab File: BF129491.D
Acq: 02 Aug 2022 00:40

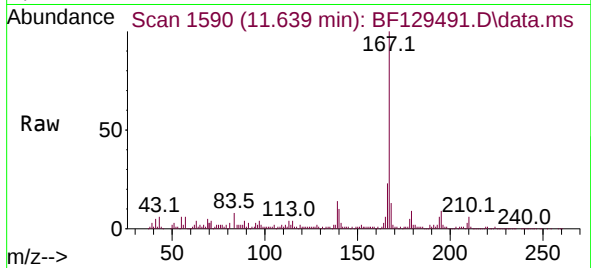
Tgt Ion:178 Resp: 219347
Ion Ratio Lower Upper
178 100
176 18.5 15.4 23.2
179 15.4 12.6 19.0





#73
 Carbazole
 Concen: 6.353 ng
 RT: 11.639 min Scan# 11
 Delta R.T. 0.000 min
 Lab File: BF129491.D
 Acq: 02 Aug 2022 00:40

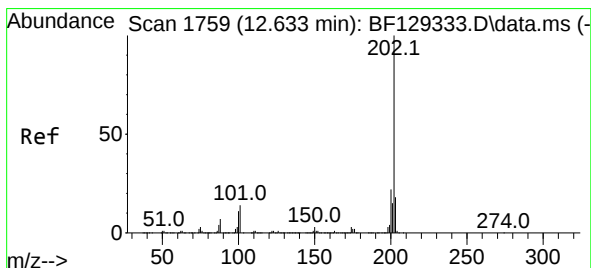
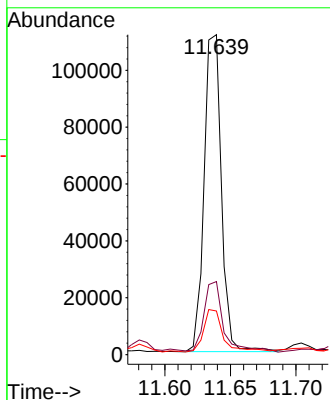
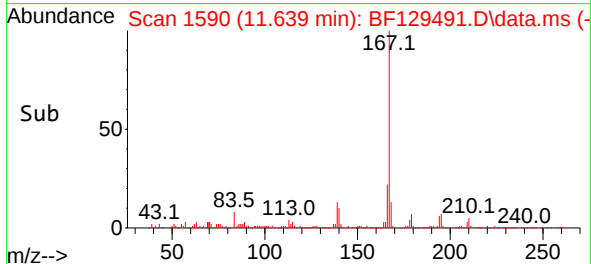
Instrument :
 BNA_F
 ClientSampleId :
 TP3-0729



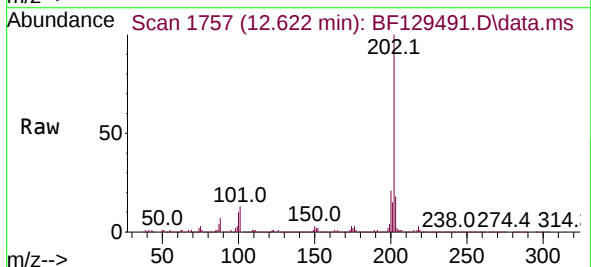
Tgt Ion:167 Resp: 102207
 Ion Ratio Lower Upper
 167 100
 166 22.9 17.7 26.5
 139 13.6 11.2 16.8

Manual Integrations
 APPROVED

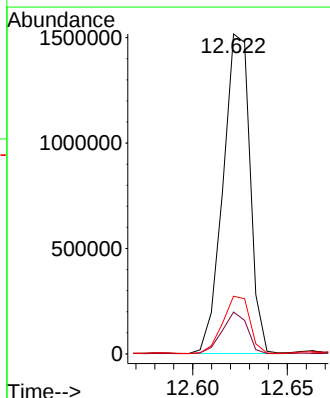
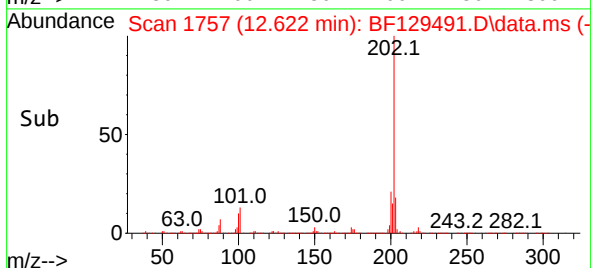
Reviewed By :Christian Giraldo 08/02/2022
 Supervised By :Jagrut Upadhyay 08/02/2022

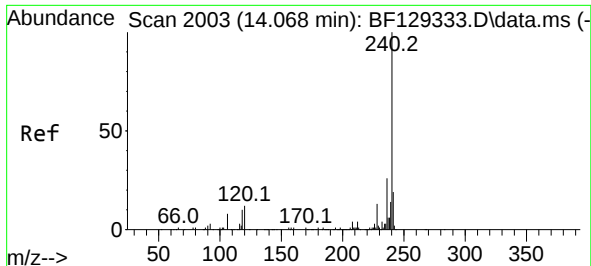


#75
 Fluoranthene
 Concen: 85.293 ng
 RT: 12.622 min Scan# 1757
 Delta R.T. 0.000 min
 Lab File: BF129491.D
 Acq: 02 Aug 2022 00:40



Tgt Ion:202 Resp: 1502928
 Ion Ratio Lower Upper
 202 100
 101 13.1 0.0 31.4
 203 18.0 0.0 38.0





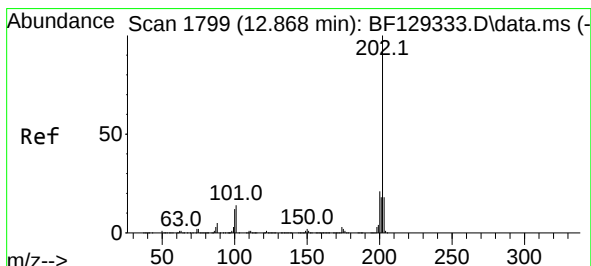
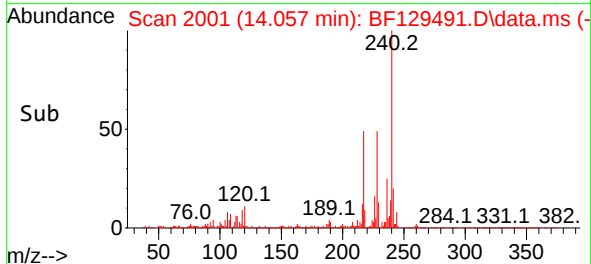
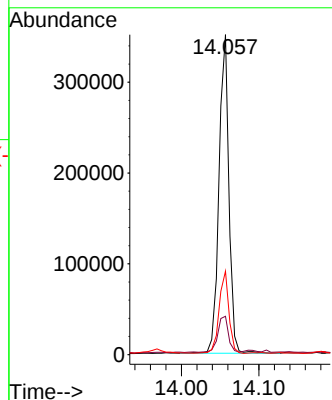
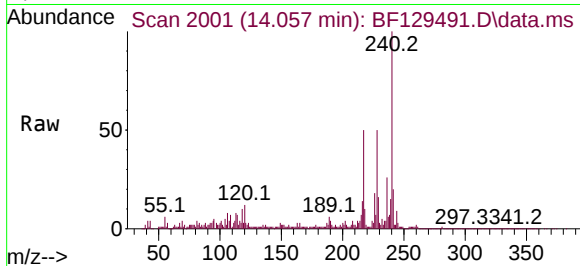
#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.057 min Scan# 2003
Delta R.T. 0.006 min
Lab File: BF129491.D
Acq: 02 Aug 2022 00:40

Instrument :
BNA_F
ClientSampleId :
TP3-0729

Tgt Ion:240 Resp: 311480
Ion Ratio Lower Upper
240 100
120 12.0 8.9 13.3
236 26.1 20.8 31.2

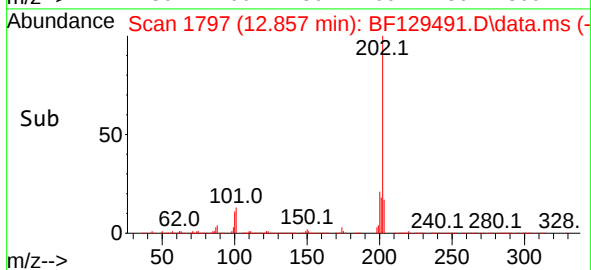
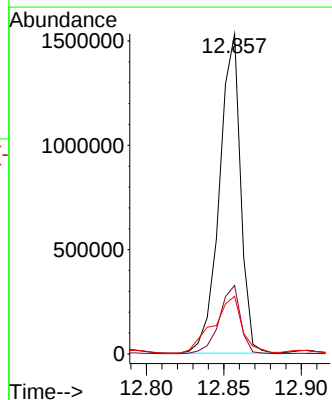
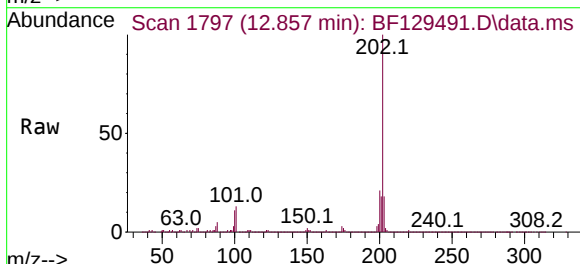
Manual Integrations
APPROVED

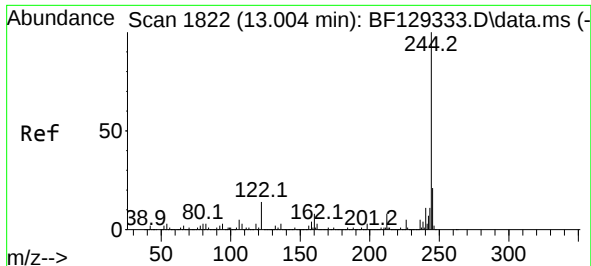
Reviewed By :Christian Giraldo 08/02/2022
Supervised By :Jagrut Upadhyay 08/02/2022



#78
Pyrene
Concen: 55.771 ng
RT: 12.857 min Scan# 1797
Delta R.T. 0.006 min
Lab File: BF129491.D
Acq: 02 Aug 2022 00:40

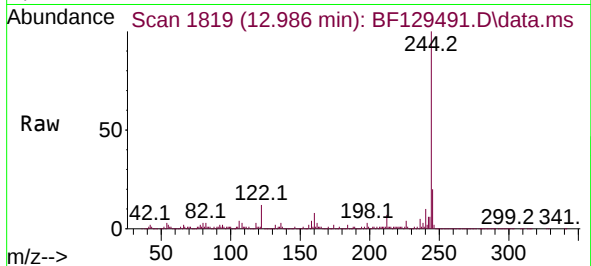
Tgt Ion:202 Resp: 1452659
Ion Ratio Lower Upper
202 100
200 21.4 17.7 26.5
203 18.0 14.6 21.8





#79
 Terphenyl-d14
 Concen: 40.461 ng
 RT: 12.986 min Scan# 1822
 Delta R.T. 0.000 min
 Lab File: BF129491.D
 Acq: 02 Aug 2022 00:40

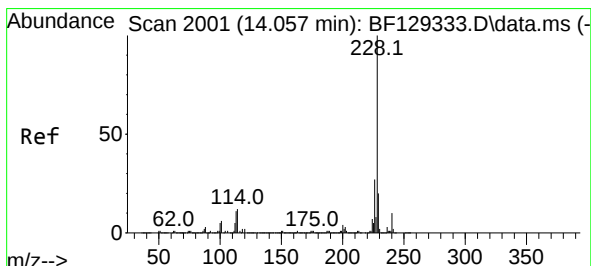
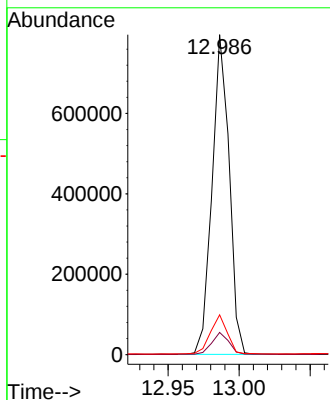
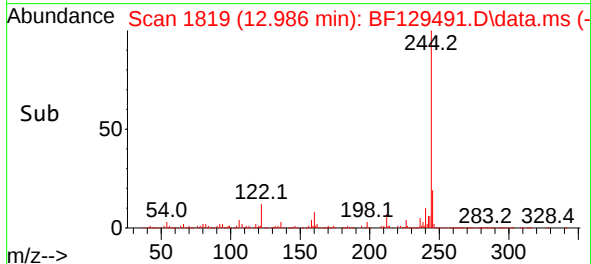
Instrument :
 BNA_F
 ClientSampleId :
 TP3-0729



Tgt Ion:244 Resp: 668017
 Ion Ratio Lower Upper
 244 100
 212 6.9 6.1 9.1
 122 12.4 8.8 13.2

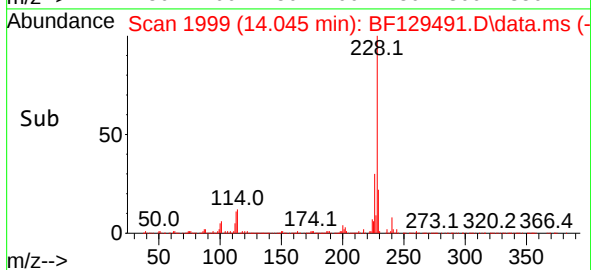
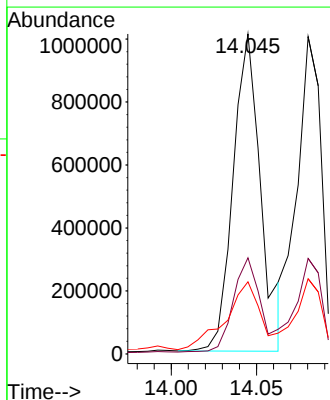
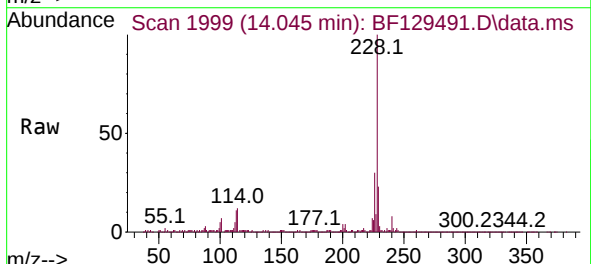
Manual Integrations
 APPROVED

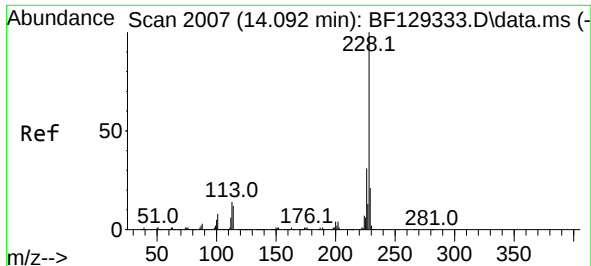
Reviewed By :Christian Giraldo 08/02/2022
 Supervised By :Jagrut Upadhyay 08/02/2022



#81
 Benzo(a)anthracene
 Concen: 53.562 ng
 RT: 14.045 min Scan# 1999
 Delta R.T. 0.006 min
 Lab File: BF129491.D
 Acq: 02 Aug 2022 00:40

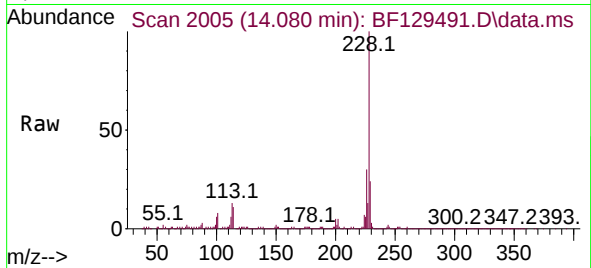
Tgt Ion:228 Resp: 1139651
 Ion Ratio Lower Upper
 228 100
 226 30.0 22.1 33.1
 229 22.5 15.8 23.8





#83
Chrysene
Concen: 49.788 ng
RT: 14.080 min Scan# 2007
Delta R.T. 0.006 min
Lab File: BF129491.D
Acq: 02 Aug 2022 00:40

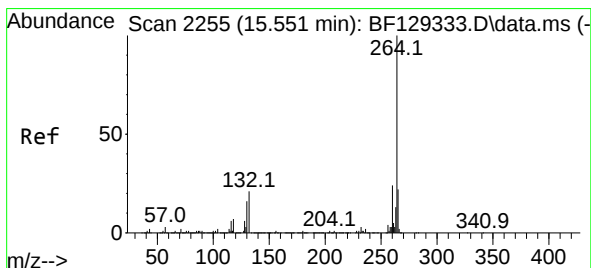
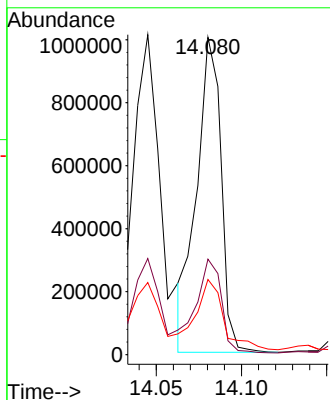
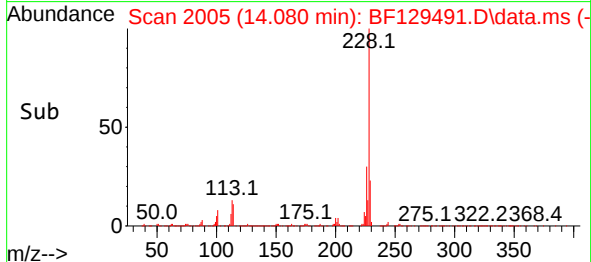
Instrument :
BNA_F
ClientSampleId :
TP3-0729



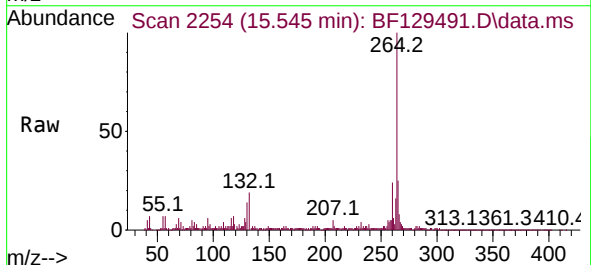
Tgt Ion:228 Resp: 998383
Ion Ratio Lower Upper
228 100
226 30.1 24.3 36.5
229 23.7 15.9 23.9

Manual Integrations
APPROVED

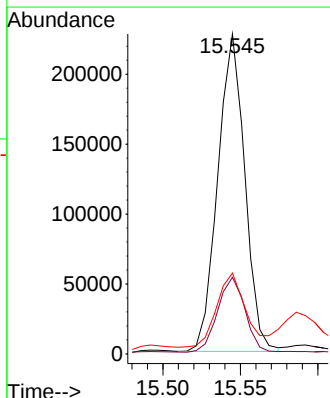
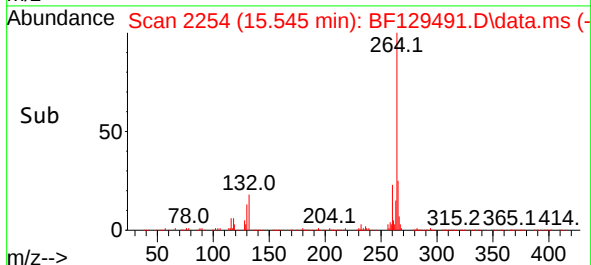
Reviewed By :Christian Giraldo 08/02/2022
Supervised By :Jagrut Upadhyay 08/02/2022

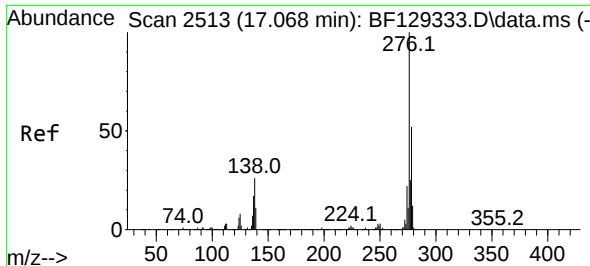


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.545 min Scan# 2254
Delta R.T. 0.018 min
Lab File: BF129491.D
Acq: 02 Aug 2022 00:40



Tgt Ion:264 Resp: 276060
Ion Ratio Lower Upper
264 100
260 23.9 18.4 27.6
265 25.3 17.2 25.8





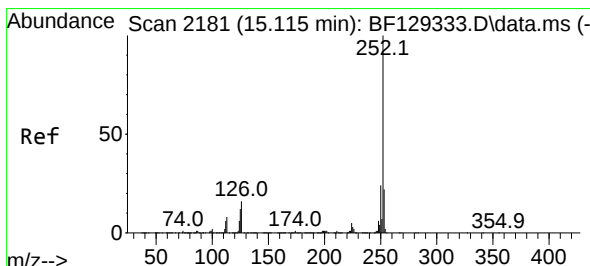
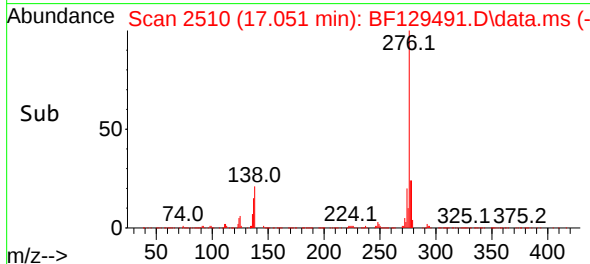
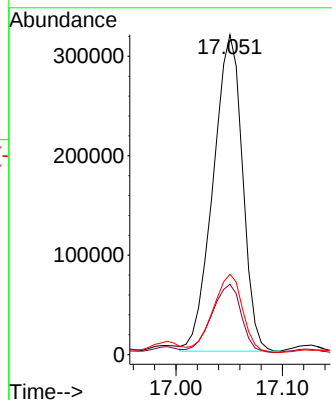
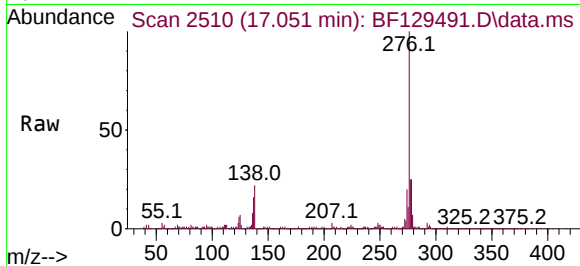
#87
Indeno(1,2,3-cd)pyrene
Concen: 32.847 ng
RT: 17.051 min Scan# 21
Delta R.T. 0.018 min
Lab File: BF129491.D
Acq: 02 Aug 2022 00:40

Instrument :
BNA_F
ClientSampleId :
TP3-0729

Tgt Ion:276 Resp: 610631
Ion Ratio Lower Upper
276 100
138 21.9 21.1 31.7
277 24.9 20.3 30.5

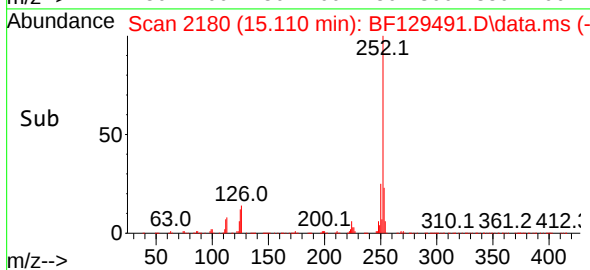
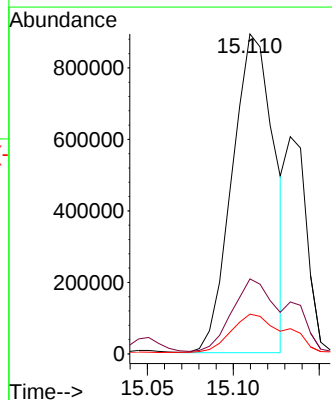
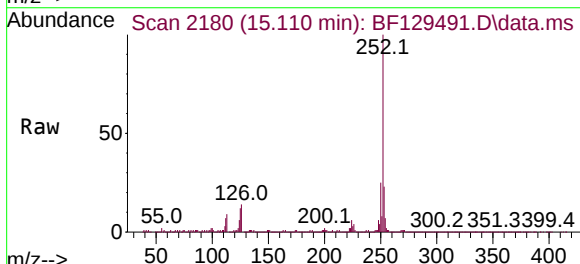
Manual Integrations
APPROVED

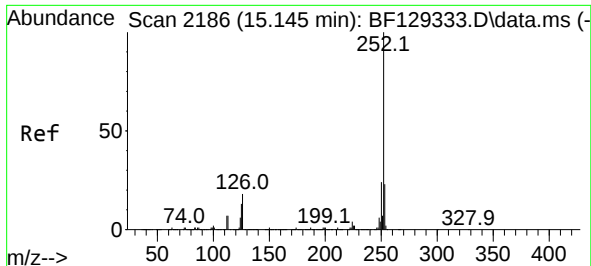
Reviewed By :Christian Giraldo 08/02/2022
Supervised By :Jagrut Upadhyay 08/02/2022



#88
Benzo(b)fluoranthene
Concen: 82.544 ng m
RT: 15.110 min Scan# 2180
Delta R.T. 0.018 min
Lab File: BF129491.D
Acq: 02 Aug 2022 00:40

Tgt Ion:252 Resp: 1511530
Ion Ratio Lower Upper
252 100
253 23.4 17.7 26.5
125 12.4 8.0 12.0#





#89

Benzo(k)fluoranthene

Concen: 27.973 ng m

RT: 15.133 min Scan# 2186

Delta R.T. 0.012 min

Lab File: BF129491.D

Acq: 02 Aug 2022 00:40

Instrument :

BNA_F

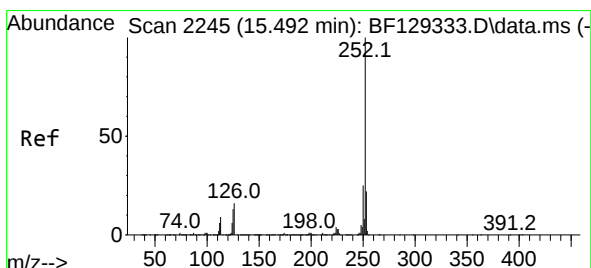
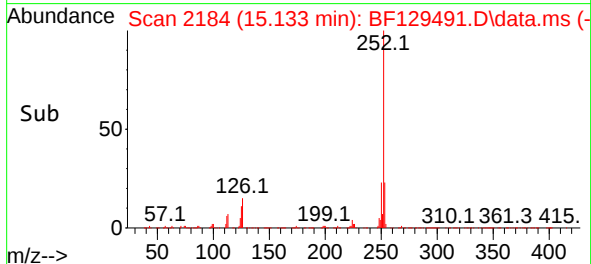
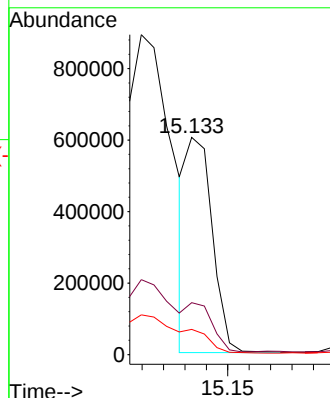
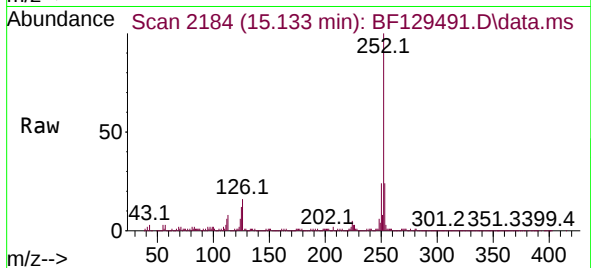
ClientSampleId :

TP3-0729

Tgt Ion:252 Resp: 501985
 Ion Ratio Lower Upper
 252 100
 253 23.9 17.8 26.6
 125 11.6 8.3 12.5

Manual Integrations
 APPROVED

Reviewed By :Christian Giraldo 08/02/2022
 Supervised By :Jagrut Upadhyay 08/02/2022



#90

Benzo(a)pyrene

Concen: 70.174 ng

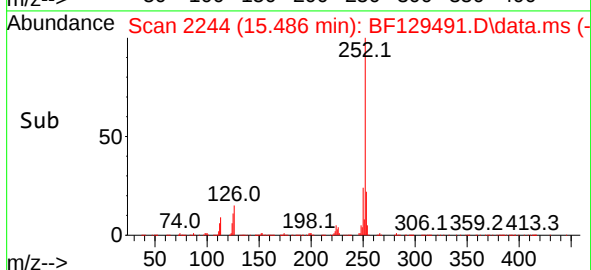
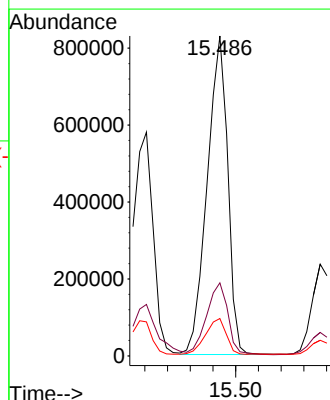
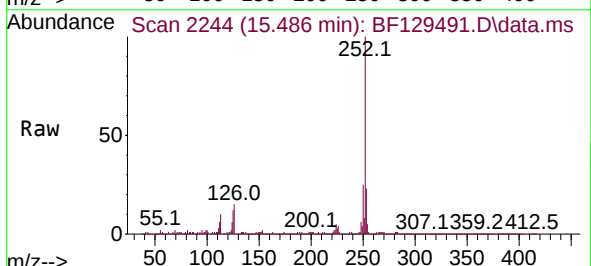
RT: 15.486 min Scan# 2244

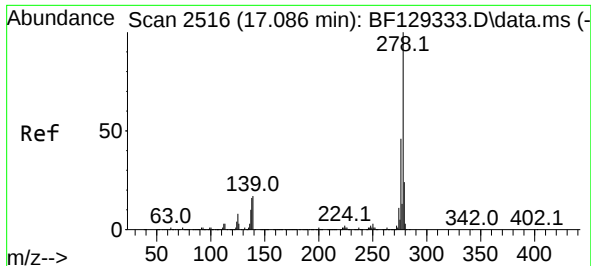
Delta R.T. 0.018 min

Lab File: BF129491.D

Acq: 02 Aug 2022 00:40

Tgt Ion:252 Resp: 1043148
 Ion Ratio Lower Upper
 252 100
 253 22.8 17.0 25.6
 125 11.7 8.8 13.2





#91
Dibenzo(a,h)anthracene
Concen: 11.116 ng m
RT: 17.057 min Scan# 2516
Delta R.T. 0.012 min
Lab File: BF129491.D
Acq: 02 Aug 2022 00:40

Instrument :

BNA_F

ClientSampleId :

TP3-0729

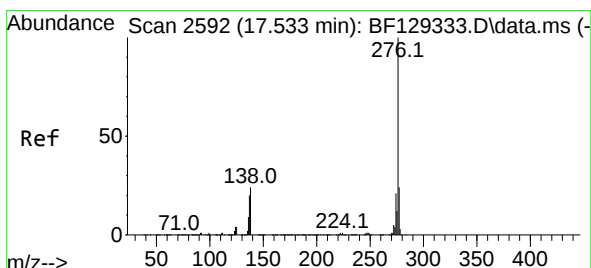
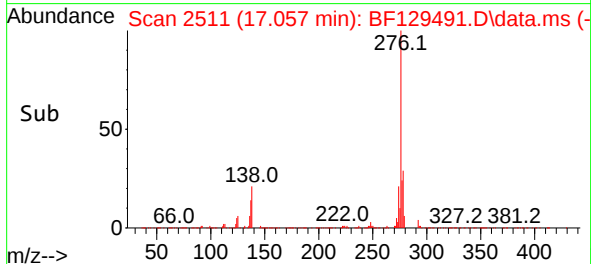
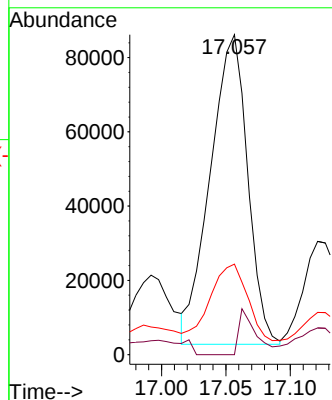
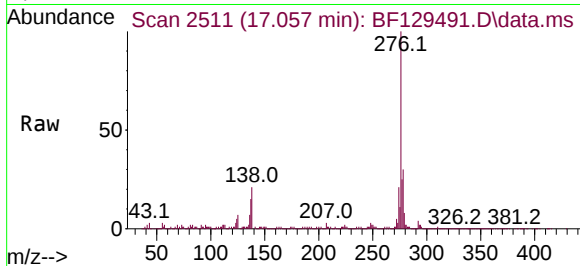
Tgt Ion:278 Resp: 168189
Ion Ratio Lower Upper
278 100
139 0.0 12.8 19.2
279 28.3 18.6 28.0

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 08/02/2022

Supervised By :Jagrut Upadhyay 08/02/2022



#92
Benzo(g,h,i)perylene
Concen: 37.005 ng
RT: 17.515 min Scan# 2589
Delta R.T. 0.024 min
Lab File: BF129491.D
Acq: 02 Aug 2022 00:40

Tgt Ion:276 Resp: 572144
Ion Ratio Lower Upper
276 100
277 24.6 19.1 28.7
138 21.7 18.0 27.0

